

VZ200

NUMBER
SEQUENCE

This program prints various sequences of numbers, each ending with a blank. You must enter the next number in the sequence — the computer indicates if your entry was correct.

A series of ten questions is asked, then your score is given.

Because the program is written in standard Microsoft BASIC, it should be easily transported to other computers. The random number statements in lines 120-140 may need modification, according to your particular version of BASIC.

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1 *****
2 *      NUMBER SEQUENCE
3 * FOR THE UNEXPANDED VZ-200 *
4 * IAN THOMPSON - COLLAROY *
5 *****
10 CLS:PRINT@104,"NUMBER SEQUENCE"
12 PRINT@325,"IAN THOMPSON,COLLAROY"
15 PRINT@485,"PRESS ANY KEY TO START"
20 IF INKEY$="" THEN 20
21 IF INKEY$="" THEN 20
25 CLS:PRINT"      NUMBER SEQUENCE":PRINT
30 PRINT"THIS PROGRAM WILL PRINT VARIOUS"
35 PRINT"SEQUENCES OF NUMBERS, EACH "
40 PRINT"ENDING WITH A BLANK (----). "
45 PRINT"WHEN YOU SEE A '?', TYPE IN THE"
50 PRINT"NUMBER THAT YOU THINK THE "
55 PRINT"COMPUTER MIGHT HAVE PRINTED IN "
60 PRINT"PLACE OF THE BLANK."
70 PRINT
75 PRINT"*****"
80 LET R=0
90 LET W=0
100 FOR I=1 TO 10
110 PRINT"PROBLEM";I
120 LET A=INT(10*RND(0)+1)
130 LET B=INT(10*RND(0)+1)
140 LET G=RND(3)
150 IF A>B THEN 285
160 IF G=1 THEN 170
162 IF G=2 THEN 210
164 IF G=3 THEN 250
170 LET X=2*A+3*B
180 PRINT A;" ";B;" ";A+B;" ";A+2*B;" "; ----";
190 INPUT Y
200 GOTO 410
210 LET X=A*A*B*B*B
220 PRINT A;" ";B;" ";A*B;" ";B*A*B;" "; ----";
230 INPUT Y
240 GOTO 410
250 LET X=-B
260 PRINT A;" ";B;" ";B-A;" ";-A;" "; ----";
270 INPUT Y
280 GOTO 410
285 IF G=1 THEN 300
290 IF G=2 THEN 340
300 LET X=A*5
310 PRINT A;" ";2*A;" ";3*A;" ";4*A;" "; ----";
320 INPUT Y
330 GOTO 410
340 LET X=16*A
350 PRINT A;" ";2*A;" ";4*A;" ";8*A;" "; ----";
360 INPUT Y
410 IF X=Y THEN 450
420 PRINT"NO; THE COMPUTER'S SEQUENCE HAS ";X;"."
430 LET W=W+1
440 GOTO 470
450 PRINT"THAT'S RIGHT!"
460 LET R=R+1
470 PRINT
480 NEXT I
485 SOUND 15,5
490 PRINT"=====
500 PRINT"SCORE: ";R;" RIGHT,";W;" WRONG
505 PRINT:PRINT"=====
510 PRINT" PRESS <SPACE> FOR ANOTHER SET OF";
520 PRINT" QUESTIONS."
530 A$=INKEY$:IF A$ <> " " THEN 530
535 RUN

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